84-16.

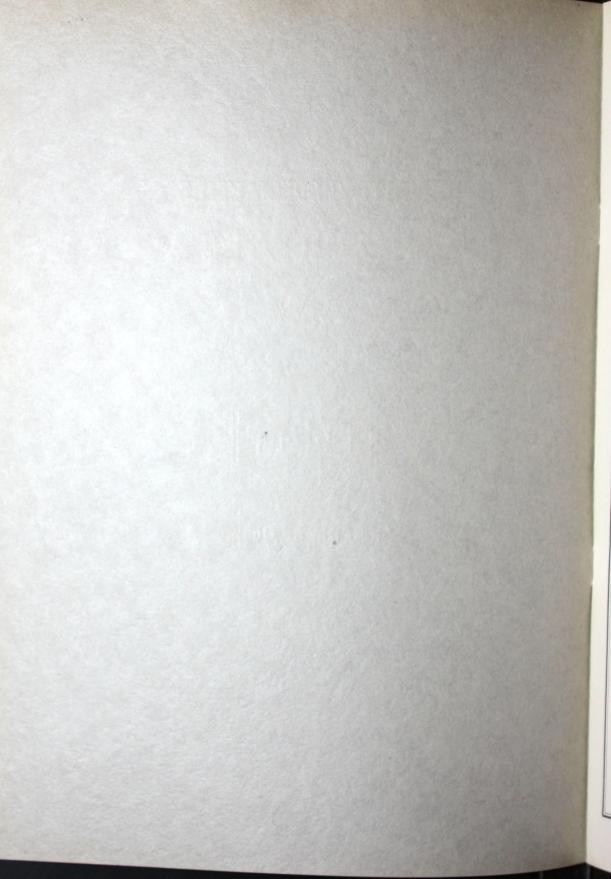
FRINK LIGHTING SPECIALTIES For The HOSPITALS





The Sign of Quality

ESTABLISHED 1857 CATALOG 426



I. P. FRINK

Reflectors

Designer and Manufacturer of Scientific and Artistic

LIGHTING SPECIALTIES

The Reflectors illustrated herein are original FRINK designs and are covered by patents issued

April 25, 1911 July 2, 1912 Nov. 14, 1911 July 30, 1912

Other Patents Pending

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I. P. FRINK, Inc.

24th Street and 10th Avenue NEW YORK

BRANCH OFFICES

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CINCINNATI, OHIO 601-603 Second National Bank Bldg.

CLEVELAND, OHIO 992 The Arcade

DETROIT, MICHIGAN 325 State St. Montreal, Canada 64 Belair Ave.

PHILADELPHIA, PENNSYLVANIA 1107 Franklin Trust Bldg.

PITTSBURGH, PENNSYLVANIA 501 Ferguson Bldg.

PORTLAND, OREGON 45 Fourth St.

San Francisco, California 77 O'Farrell St.

SEATTLE, WASHINGTON 609 Seaboard Bldg.

St. Louis, Missouri 1415 Pine St.

Frink Operating Table Reflectors

Hundreds Now in Use

With Automatic Ventilation

Nothing Better Made

Frink Operating Table Reflectors are now being used in nearly all first class hospitals throughout the country.

With this device an unusually strong light is obtained—over 60 foot-candles concentrated on the table. This intensity would be impractical if the heat generated by the lamps were not drawn off by an ingenious ventilating system incorporated in the reflector.

This system is purely automatic in action and is based on the principle of convection currents in air (see cut 18669). Two tubes or funnels (A) are mounted vertically within the reflector, connecting the cool air chamber (B) with the hot air expulsion chamber at top. The heat of the adjacent lamps introduces an unbalanced thermal condition, causing air to be drawn into the space (B), upward through the tubes, finally expelling it through the top. The constant circulation thereby effected maintains the lower plate at minimum temperature. Carefully conducted tests have shown the temperature rise at this point to not exceed ten degrees above room temperature, after an hour's continuous use.

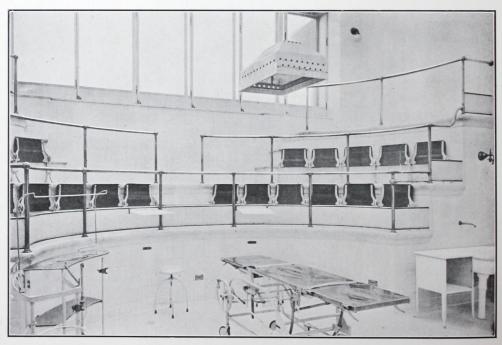
This fixture is constructed with framework of heavy gauge steel, with ample air space between the inner and outer casing. This prevents the outer surface from becoming heated sufficiently to effect the finish.

The inner casing or reflector proper is lined with our special silvered, ripple glass. These reflectors are equipped for six 100-watt Type C lamps, wired in two circuits, and should be installed 7 feet from floor to bottom of reflector.

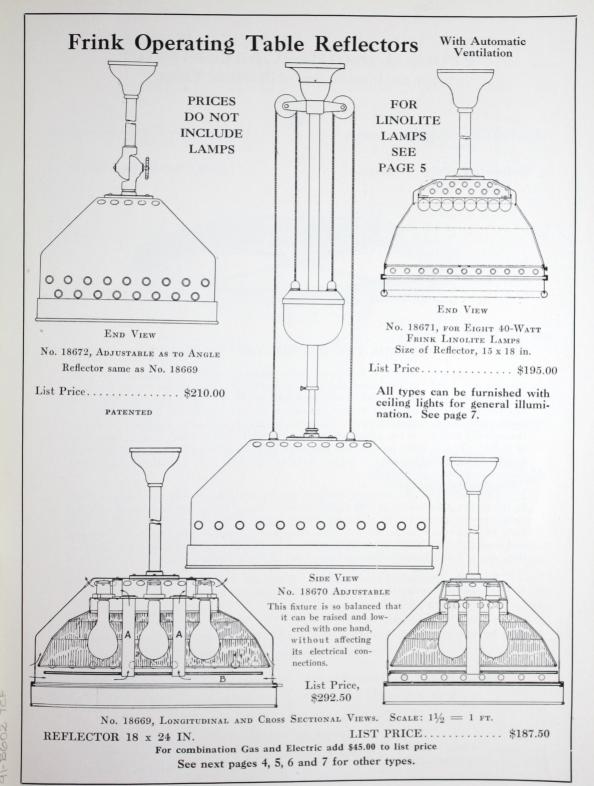
The entire fixture is finished in white enamel, which we guarantee not to discolor, flake or peel off.

All fixtures can be supplied with ceiling lights for general illumination. See page 7.

WHEN ORDERING, STATE HEIGHT OF CEILING. STANDARD LENGTH, 6 FEET OVER ALL.

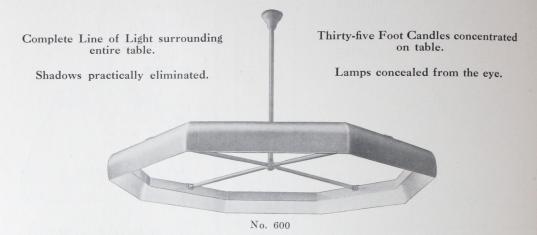


SLOANE MATERNITY HOSPITAL, NEW YORK. OPERATING TABLE REFLECTOR No. 18669



Frink Linolite Concentrator

For the Illumination of Operating Tables



THE LATEST IDEA FOR THE ILLUMINATION OF OPERATING TABLES

An octagonal reflector, 6 feet in diameter, surrounding the entire table, so designed that the direct light of the lamps and reflected light is confined to the top of the table. (See diagrammatic drawing and one-quarter scale section on opposite page.) The Frink Linolite Lamp used with this fixture consists of a glass tube one inch in diameter and eleven and one-quarter inches long. The filament extends the entire length of the tube—through the center. When placed end to end "Frink Linolite" forms a continuous "line of light." The filament being a line source of light, paralleling the angles of reflection, enables us to confine the light to a given area or distribute it with equal intensity over a definite surface.

Each section of the octagon contains two 40-Watt Linolite Lamps, sixteen lamps to the fixture, 640 Watts or 480 Candle Power. It can be readily understood with this candle power spread out in a line six feet in diameter that the obstruction of light from any position must be far less than when the light is focused on the table from several sources. This is not theory but a physical fact. If you want shadowless illumination, use a Frink Linolite Concentrator—can be washed with a hose.

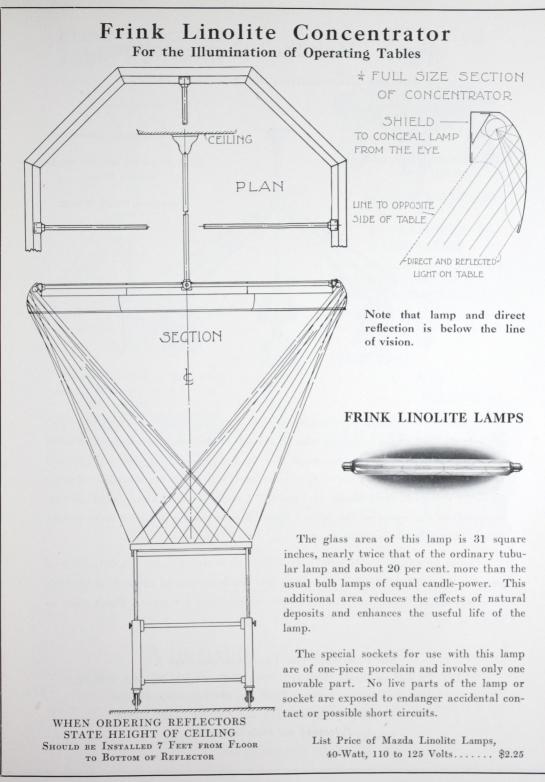
Finished white enamel inside and out. Wired for alternate control of lamps. Can be furnished with ceiling lights for general illumination. See page 7.

Can be furnished with Adjustable Focusing Unit in center, see page 7, cut No. 604.

For Emergency Gas Equipment see page 7.

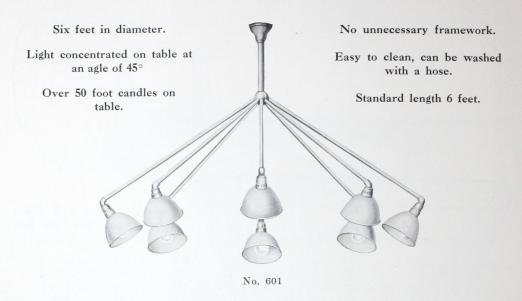
LIST PRICE as shown, \$195.00 With No. 603 Ceiling Light, \$218.00 With Adjustable Focusing Unit No. 604 in center, \$217.00 With Focusing Unit and Ceiling Light, \$240.00 Lamps not included.

For Lamps see page 5.



Frink "Multilite" Concentrator

For the Illumination of Operating Tables



Frink Multilite Concentrator consists of eight Parabolic Reflectors, arranged to concentrate the light on the operating table at an angle of about forty-five degrees. Similar to the Frink Linolite Concentrator except that the light comes from eight units instead of a line source. Reflectors are made of spun steel, with white fire enameled reflecting surface. Using 100-Watt Mazda or Type "C" Lamps, over fifty foot candles are concentrated on the center of the table. Entire fixture finished in baked white enamel. Should be installed 7 feet from floor.

Can be furnished with Adjustable Focusing Unit in center, as per No. 604, shown on page 7. With this arrangement an intense light can be focused on any part of the table or at any angle. Can also be furnished with ceiling lights for general illumination, as shown on page 7.

For Emergency Gas Equipment see page 7.

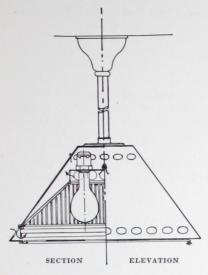
LIST PRICE as shown, \$135.00 With Ceiling Light No. 603, \$158.00

With Adjustable Focusing Unit No. 604 in center, \$157.00

With Adjustable Focusing Unit and Ceiling Light, \$180.00

Prices do not include lamps

Frink Operating Table Reflector



No. 602

Ventilated reflector, 22 inches square with glass door at bottom; lined with our special silvered ripple glass. Will give excellent results where a low priced fixture is desired. Made for four 100-Watt Type C lamps; finished white enamel. Standard length, 6 feet.

List Price..... \$120.00

Frink Ceiling Light



No. 603

FOR GENERAL ILLUMINATION

Can be furnished with any of the operating table reflectors.

Spread 12 in. List Price, 4-Lt.

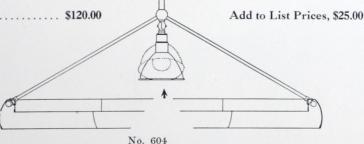
Finished Nickel Plated. . \$23.00 Finished White Enamel. . \$23.00

EMERGENCY

GAS

EQUIPMENT

Concentrators Nos. 600 and 601 can be furnished with reflex gas burner and reflector in place of adjustable focusing unit shown in cut No. 604.



Adjustable Focusing Unit

Steel Fire Enameled

Can be furnished with No. 600 and No. 601. With this arrangement an intense light can be focused on any part of the table or at any angle. When furnished with No. 600 the reflector supports are raised in the center as shown in cut.

List Price.....

Frink Ward Lighting Reflectors

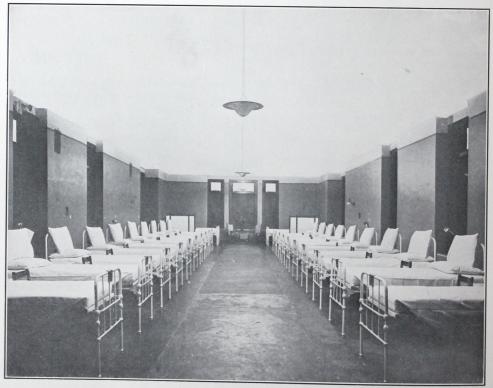
The Frink system of Hospital Lighting is now being used in the City Hospitals of New York, and many other hospitals throughout this country and Canada.

We have made a careful study of the irritating effect of artificial illumination on the weakened eyes of patients.

While we consider the indirect system most satisfactory, care must be taken to select fixtures that are designed with a thorough knowledge of light control. A high point of specular reflection—that is, a glaring light spot directly above the fixture—is as bad as an exposed light source.

Our reflectors are designed to distribute evenly diffused light over a large area of the ceiling, from whence it is redirected and diffused throughout the room. The result is a soft, pleasing effect, very agreeable to the eyes.

WHEN OUR RECOMMENDATIONS ARE FOLLOWED WE GUARANTEE SATISFACTORY RESULTS.



WARD LIGHTED WITH FRINK REFLECTORS

Frink Ward Lighting Reflectors



INDIRECT CLUSTER REFLECTOR

Spr	ead, 10	3 i	nches	List	Price
No.	605.	2	Light		\$31.00
No.	606.	3	Light		32.50
No.	607.	4	Light		33.75

Made of brass, lined with our special silvered, ripple glass. Equipped with clear glass cover for dust protection. Finished in white enamel or mat nickel.

Furnished Wired with Socket attached

Complete except Lamps

Standard Length 36 inches over all



REFLECTOR-DIFFUSER

Spread					Ι	i	st Price
10-in.	No.	608.					\$14.25
							17.75
							21.00

Reflector and diffuser in one piece, the upper and lower portions having a special treatment resembling white opal, with clear glass between.

Dust and insect proof.

Equipped with adjustable socket for one 75, 100, 200 or 300-Watt Type C lamp.

Finished white enamel or mat nickel.

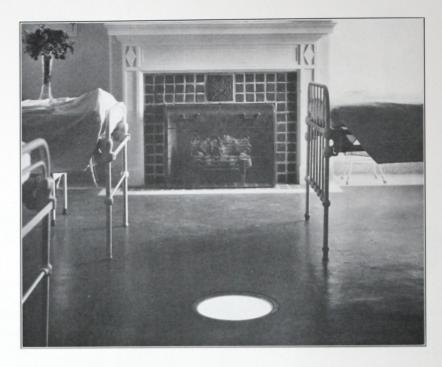


Spread, 20 in.

No. 611. List Price..... \$19.50

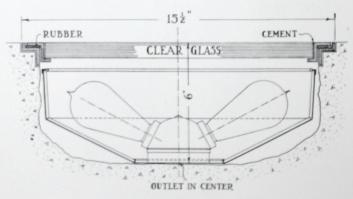
White, fire enameled steel reflector equipped with socket for one 75 or 100-Watt Type C lamp.

Frink Floor Light



In both small and large wards, the floor light is useful and may be placed in the passage ways, thereby distributing throughout the ward a soft, pleasing and effective illumination, entirely out of the patient's normal vision.

They are equipped for two or three 40-Watt bulb lamps, and may be spaced in accordance with the size of the ward on from 20 to 35 feet centres.



No. 615. 1/4 Full Size Prices on application.

Frink Wall Lights

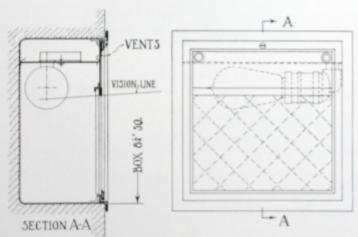


Frink Wall and Floor Lights have been developed to supply the demand for soft, well diffused light sources, so placed as to eliminate entirely annoyance due to glare. They supplant in a sanitary and satisfactory manner the usual bracket or ceiling night lights.

Wall lights in private rooms are placed to one side of the bed, and afford ample light for the nurse in her rounds, while entirely concealing the source from the patient. These are also used in corridors to supply the necessary illumination after the general lighting has been switched off.

Both of these appliances are in successful

use and are heartily endorsed by leading authorities. They are well worth the consideration of those planning or revising the equipment of hospital buildings.



No. 616. ¼ Full Size

Designed for one 25- or 40-watt bulb lamp

Prices on application.

Frink Microscopic Reflector



No. 614

Housing Spun in One Piece.

Back Containing Focusing Reflector, Removable.

Equipped With Color Filter for Daylight Conversion.

Lamps and Filters Concealed from the Eye.

Only One Lamp Required for Darkfield and Regular Examinations.

Adjustable to Any Angle.

In the examination of germ bacteria under a powerful microscope, it is sometimes difficult to arrive at definite results when working under light sources of varying spectral value. We have made a careful study of this problem and have perfected a lamp that meets all requirements for microscopic examinations.

The housing is 7 inches long, $4\frac{1}{2}$ inches in diameter, equipped with adjustable reflector for concentrating the light on screens or filters, and is furnished with one 100-Watt Type "C" Stereopticon Lamp. This lamp is sufficiently strong for Darkfield examinations. When used with our Daylight Filter, artificial daylight is obtained. Can also be equipped with white-ground filter for diffused light, giving more contrast for stained specimens. Reflector is finished dull black.

Price includes six feet of cord, plug and lamp.

List Price........\$30.00 Daylight Filter......\$4.50
White Ground Filter......\$2.00

Frink Adjustable Bed Light

This fixture can be instantly adjusted to throw the light in any direction. When directed on bed a strong light is obtained for examination; when directed on side wall a soft light for reading; when directed to ceiling a well diffused light is obtained for general illumination. Especially recommended for private rooms. Extension 17 inches over all. Finished white enamel or mat nickel. Inside of reflector mat aluminum.



DOWNWARD DIRECT



Can be installed with socket up or down

INDIRECT FROM WALL FOR READING

No. 612. For 25, 40 or 60-WATT LAMPS



CONCENTRATED ON BED FOR EXAMINATIONS



INDIRECT FROM CEILING FOR GENERAL ILLUMINATION

Frink Polaralite Signs

FRINK POLARALITE SIGNS consist of a heavy sheet of plate glass into which the lettering or design is deeply sandblasted. An entirely new departure in construction, so different from ordinary signs that it at once attracts attention by its striking and forceful appeal.

The source of illumination is entirely hidden. The light enters the plate through the edge. The plate appears dead except where the blasting occurs, giving a surprisingly beautiful and original effect.

The examples shown are merely suggestions; there is practically no limit to the variety of designs which can be carried out in these signs. We shall be glad to submit sketches and full information on request and co-operate in carrying out the ideas of any prospective buyer.

Information Required in Order to Quote Prices:

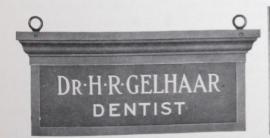
Type of Sign Desired—Approximate Size

To Read from One or Both Sides—Reading Matter

What Finish for Metal Parts



No. 19424 Made Single and Double Face



No. 19419 Made Single and Double Face



No. 19420 Made Single and Double Face

Partial List of Hospitals Using Frink Equipment

St. Vincent's Male Orphan Asylum Albany, N. Y.

County Hospital Arlington, Cal.

Ashtabula General Hospital Ashtabula, Ohio

Atlantic City Hospital Atlantic City, N. J.

Auburn City Hospital Auburn, N. Y.

Phipps Clinic, Johns Hopkins Hospital Baltimore, Md.

Barre Hospital Barre, Vt.

Homeopathic Hospital Boston, Mass.

Brooklyn State Hospital Brooklyn, N. Y.

Brownsville and East New York Hospital Brooklyn, N. Y.

Long Island State Hospital Brooklyn, N. Y.

Morse Dry Dock Hospital Brooklyn, N. Y.

Peck Memorial Hospital Brooklyn, N. Y.

Brookville Hospital Brookville, Pa.

Brant House Military Hospital Burlington, Ont.

Mary McClellan Hospital Cambridge, N. Y.

Memorial Hospital Canandaigua, N. Y.

U. S. General Hospital, No. 11 Cape May, N. J.

U. S. General Hospital Carlisle, Pa.

Municipal Tubercular Hospital Chicago, Ill.

North Chicago, Hospital Chicago, Ill.

Peoples Hospital Chicago, Ill.

Geisinger Memorial Hospital Danville, Pa. Du Bois Hospital Du Bois, Pa.

Emergency Hospital Easton, Md.

Ralston Hospital El Paso, Texas

St. Joseph Hospital Fort Wayne, Ind.

John Seeley Hospital Galveston, Texas

City of Grand Haven Hospital Grand Haven, Mich.

St. Leo's Hospital Greensboro, N. C.

Camp Hill Military Hospital Halifax, N. S.

Hitchcock Memorial Hospital Hanover, N. H.

Harrisburg Hospital Harrisburg, Pa.

Department Public Charities Hartford, Conn.

Hartford Hospital Hartford, Conn.

Hale Hospital Haverhill, Mass.

St. Mary's Hospital Hoboken, N. J.

Providence Hospital Holyoke, Mass.

John Sealy Hospital Houston, Texas

N. Y. Training School for Girls Hudson, N. Y.

Huntington Hospital Huntington, L. I.

R. W. Long Hospital Indianapolis, Ind.

W. C. A. Hospital Jamestown, N. Y.

St. Francis Hospital Jersey City, N. J.

Cambria Steel Co. Johnstown, Pa.

Mercy Hospital Johnstown, Pa.

Christian Church Hospital Kansas City, Mo.

Dunson Hospital La Grange, Ga. Lockport City Hospital Lockport, N. Y.

De Barkin Hospital Long Beach, Cal.

St. Mary's Hospital Marquette, Mich.

City Poor Farm Marshalsea, Pa.

Dept. Charities, Male Hospital Marshalsea, Pa.

Royal Victoria Hospital Montreal, Canada

Drummond Hospital Montreal, Canada

Morristown Memorial Hospital Morristown, N. J.

Napa State Hospital Napa, Cal.

Nashua Memorial Hospital Nashua, N. H.

Central Hospital for Insane Nashville, Tenn.

St. Michael's Hospital Newark, N. J.

Lincoln Private Hospital Newark, N. J.

Willard Parker Hospital New York, N. Y.

Sea View Hospital New York, N. Y.

Flower Hospital Pavilion New York, N. Y.

St. Luke's Hospital New York, N. Y.

Gouverneur Hospital New York, N. Y.

R. C. Hospital New York, N. Y.

Mount Sinai Hospital New York, N. Y.

Medical College Hospital for Women New York, N. Y.

Sloane Hospital for Women New York, N. Y.

Bellevue Hospital New York, N. Y.

Beth Israel Hospital New York, N. Y.

Partial List of Hospitals Using Frink Equipment

Presbyterian Hospital New York, N. Y.

N. Y. Women's Hospital New York, N. Y.

Sailors' Snug Harbor, S. I., Hospital New York, N. Y.

S. S. Ryndam New York, N. Y.

U. S. S. Manchuria New York, N. Y.

St. Christopher's Hospital for Babies New York, N. Y.

Grand Central Palace, U. S. Govt. DeBark, No. 5' New York, N. Y.

Booth Memorial Hospital, Salvation Army New York, N. Y.

Beth David Hospital New York, N. Y.

Navy Yard Hospital New York, N. Y.

Hahneman Hospital New York, N. Y.

Bronx Maternity Hospital New York, N. Y.

United Fruit Company New York, N. Y.

Dr. Nielsen's Sanitarium New York, N. Y.

Tonsil Hospital New York, N. Y.

U. S. Public Health Hospital, 67 New York, N. Y.

St. Bartholomew's Hospital New York, N. Y.

Hayes Sanitarium New York, N. Y.

Jewish Memorial Hospital New York, N. Y.

Hospital for Insane North Battleford, Sask.

Oak Park Hospital Oak Park, Ill.

Olney, Pa.

Pasadena Hospital Association Pasadena, Cal.

General Hospital Paterson, N. J.

Honolulu Naval Hospital Pearl Harbor, Honolulu

Hog Island Emergency Hospital Philadelphia, Pa.

Samaritan Hospital Philadelphia, Pa.

Phipps Institute Philadelphia, Pa.

Frankford Hospital Philadelphia, Pa.

University of Pennsylvania, Surgical Pavilion Philadelphia, Pa.

St. Mary's Hospital Philadelphia, Pa.

Philadelphia General Hospital Philadelphia, Pa.

Government Hospital Colon, Panama

St. Joseph Hospital Phoenix, Ariz.

Marshalsea Hospital Pittsburgh, Pa.

State Institute Polk, Pa.

Memorial Hospital Piqua, Ohio

Kings Daughters Hospital Portsmouth, Va.

United Fruit Co. Preston, P. B.

Earl Grey Hospital Regina, Sask.

Rome Custodial Asylum Rome, N. Y.

Mount Zion Hospital San Francisco, Cal.

City and County Hospital San Francisco, Cal.

Children's Hospital San Francisco, Cal.

Saratoga Hospital Saratoga Springs, N. Y.

Presbyterian Hospital San Juan, P. I. Ellis Hospital Schenectady, N. Y.

Moose Jaw Hospital Moose Jaw, Sask.

L. H. Buhl Hospital Sharon, Pa.

Overlook Hospital Summit, N. J.

Lancaster Hospital St. John, N. B.

Missouri Pacific Hospital St. Louis, Mo.

Toledo Hospital Company Toledo, Ohio

Toronto Orthopedic Hospital Toronto, Ont.

Military Orthopedic Hospital Toronto, Ont.

Rosedale Hospital Toronto, Ont.

Homeopathic Hospital Utica, N. Y.

Masonic Memorial Hospital Utica, N. Y.

Faxton Hospital Utica, N. Y.

Twin Falls Hospital Twin Falls, Idaho

U. S. Naval Hospital Washington, D. C.

Williamsport Hospital Williamsport, Pa.

State Hospital for Crippled and Deformed Children West Haverstraw, N. Y.

General Hospital Winnipeg, Man.

Manitoba Military Hospital Winnipeg, Man.

Loomis Institute Windsor, Conn.

Military Convalescence Hospital Whitby, Ont.

Homeopathic Hospital Wilmington, Del.

Ohio Valley General Hospital Wheeling, W. Va.

St. Elizabeth Hospital Youngstown, Ohio

Frink Service

Our Branch Offices Are Prepared to Give Expert Advice on Illuminating Problems of Every Description

BIRMINGHAM, ALA.
526 The Age-Herald Building

BOSTON, MASS. 161 Summer Street

Buffalo, N. Y. 310 Mutual Life Building

CHICAGO, ILL.
1309 Monadnock Building

CINCINNATI, OHIO
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CLEVELAND, OHIO 992 The Arcade

Detroit, Mich. 325 State Street

Montreal, Canada 64 Belair Avenue

PHILADELPHIA, PA.
1107 Franklin Trust Building

PITTSBURGH OFFICE 501 Ferguson Building

PORTLAND, ORE.
45 Fourth Street

San Francisco, Cal. 77 O'Farrell Street

SEATTLE, WASH.
609 Seaboard Building

St. Louis, Mo. 1415 Pine Street

I. P. FRINK, Inc.

24th Street and 10th Avenue NEW YORK

